Application/Control Number: 09/856,070

Art Unit: 1653

Examiner's Amendments to the Claims:

Please cancel claims 67-76.

Claims 31-34, 36, 50-62, 65 and 66 have been amended as follows:

- 31 (Currently amended). An isolated molecule [which consists of an amino acid sequence] that binds to the hepreceptor, wherein said [hepreceptor binding sequence] molecule consists of 5 to 41 amino acids containing at least 5 consecutive amino acids of SEQ D NO[.]: 29.
- 32. (Currently amended). The molecule, according to claim 31, wherein [the hepreceptor binding sequence] <u>said</u> at least 5 consecutive amino acids <u>are</u> located at positions 1-13 in SEQ ID NO[.]:29.
 - (Currently amended). The molecule, according to claim 31, wherein said [hepreceptor binding sequence] molecule consists of from 5 to 14 amino acids.
- 34 (Currently amended). An isolated molecule [which consists of an amino acid sequence] that binds to the hepreceptor, wherein said [hepreceptor binding sequence] molecule consists of an amino acid sequence selected from the group consisting of:

MREKEELMLRLQDXaaEEKTKKAERELSEQIQRALQ (SEQ ID NO[.]:2);
EREKE (SEQ ID NO[.]:16);
EREKEQMMREKEEL (SEQ ID NO[.]:17);
KEELM (SEQ ID NO[.]:18);
KEELMLRLQDYEE (SEQ ID NO[.]:19);
KEELMLRLQDYPEE (SEQ ID NO[.]:20);
EELMLRLQDYEE (SEQ ID NO[.]:21);
EELMLRLQDYEE (SEQ ID NO[.]:22);
ELMLRLQDYEE (SEQ ID NO[.]:23);
ELMLRLQDYEE (SEQ ID NO[.]:23);
ELMLRLQDYPEE (SEQ ID NO[.]:24);
MLRLQ (SEQ ID NO[.]:25);
QDYEE (SEQ ID NO[.]:26); and

QDYpEE (SEQ ID NO[.]:27).

- 36 (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
- 50 (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
- 51 (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
- 52 (Currently amended). Please replace "SEQ ID NO." with "SEO ID NO.".
- 53 (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
- (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
- (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO:".
- (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
- 57 (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO:".
- (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
- (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO:".
- 60 (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO:".
- 61 (Currently amended). Please replace "SEQ ID NO." with "SEQ ID NO.".
- (Currently amended). A method for upregulating the immune system in a patient with cancer, Human Immunodeficiency Virus (HIV), or a bacteria infection, wherein said method comprises administering[,] to [a] <u>said</u> patient [with cancer, Human Immunodeficiency Virus (HIV), or a bacterial infection,] an effective amount of a molecule [which consists of an amino acid sequence] that binds to the hepreceptor, wherein said [hepreceptor binding sequence] <u>molecule</u> consists of <u>5</u> to <u>41</u> amino acids containing at least 5 consecutive amino acids of SEQ ID NO[.]:29; wherein the administration of said molecule results in upregulation of the immune system in the patient.
- 65 (Currently amended). The method, according to claim [64] <u>62</u>, wherein said [hepreceptor binding sequence] <u>molecule</u> has between 5 and 14 amino acids.
- 66. (currently amended) [The] A method[, according to claim 64] for upregulating the immune system in a patient with cancer, Human

 Immunodeficiency Virus (HIV), or a bacteria infection, wherein said method comprises administering to said patient an effective amount of a molecule that

Application/Control Number: 09/856,070

Art Unit: 1653

<u>binds</u> to the hepreceptor, wherein said molecule consists of an amino acid sequence selected from the group consisting of:

MREKEELMLRLQDXaaEEKTKKAERELSEQIQRALQ (SEQ ID NO[.]: 2);

EREKE (SEQ ID NO[.]:16);

EREKEQMMREKEEL (SEQ ID NO[.]:17);

KEELM (SEQ ID NO[.]:18);

KEELMLRLQDYEE (SEQ ID NO[.]:19);

KEELMLRLQDYpEE (SEQ ID NO[.]:20);

EELMLRLQDYEE (SEQ ID NO[.]:21);

EELMLRLQDYpEE (SEQ ID NO[.]:22);

ELMLRLQDYEE (SEQ ID NO[.]:23);

ELMLRLQDYpEE (SEQ ID NO[.]: 24);

MLRLQ (SEQ ID NO[.]:25);

QDYEE (SEQ ID NO[.]:26); and

QDYpEE (SEQ ID NO[.]:27).